

What is claimed is:

1. A vibration absorber jack, comprising:
 - 5 a. a tripod type base;
 - b. a jack, the jack attached to the tripod type base;
 - c. an absorber positioning mechanism, the absorber positioning mechanism disposed on top of the jack; and
 - d. a vibration absorber holder, the vibration absorber holder attached to the absorber positioning mechanism such that the vibration absorber holder can be positioned and moved by the absorber positioning mechanism.
- 10 2. The vibration absorber jack of claim 1, wherein the jack is a ball-screw jack.
- 15 3. The vibration absorber jack of claim 2, wherein the absorber positioning mechanism is a pivoting assembly.
4. The vibration absorber jack of claim 3, wherein the tripod type base includes three feet, the three feet are securely attachable to a floor.
- 20 5. The vibration absorber jack of claim 4, wherein the ball-screw jack includes a jack wheel for adjusting the jack, the jack wheel able to adjust the height of the absorber position mechanism.
6. The vibrator absorber jack of claim 5, wherein the pivoting assembly includes a handle for adjusting the pivoting assembly and adjusting the position of the vibration absorber holder.

7. A vibration absorber jack for installing vibration absorbers in aircraft, the vibration absorber jack, comprising:

- a. a tripod type base;
- b. a ball-screw jack, the ball-screw jack attached to the tripod type base, the ball-screw jack includes a jack wheel for adjusting height of the ball-screw jack;
- c. a pivoting assembly, the pivoting assembly disposed on top of the ball-screw jack, the jack wheel able to adjust the height of the pivoting assembly, the pivoting assembly including a pivoting assembly main bracket, a first pivoting assembly bracket, a second pivoting assembly bracket, a stabilizer, and a linkage; the first pivoting assembly bracket slidably attached to the pivoting assembly main bracket, the linkage and the stabilizer rotatably attached to the pivoting assembly main bracket, the linkage rotatably attached to the second pivoting assembly bracket, the stabilizer rotatably attached to the linkage; and,
- d. a vibration absorber holder, the vibration absorber holder attached to the first pivoting assembly bracket and the second pivoting assembly bracket such that the vibration absorber holder can be positioned and moved by the pivoting assembly.

8. The vibration absorber jack of claim 7, the pivoting assembly main bracket including a slot, the first pivoting assembly bracket slidably attached to the pivoting main assembly bracket via the slot.

20 9. The vibration absorber jack of claim 8, wherein the pivoting assembly main bracket includes two bracket legs, the pivoting assembly main bracket being an angle bracket with an angle between the bracket legs at least 90 degrees but no more than 180 degrees.

25 10. The vibration absorber jack of claim 9, wherein the stabilizer is a two-link system, including a first stabilizer link and a second stabilizer link, the stabilizer allows upward, downward, and angular

movement of the vibration absorber holder, the first stabilizer link and the second stabilizer link are rotatably attached to each other.

11. The vibrator absorber jack of claim 10, wherein the pivoting assembly includes a handle for adjusting
5 the pivoting assembly and adjusting the position of the vibration absorber holder.

12. The vibrator absorber jack of claim 11, wherein the ball-screw jack includes a worm gear assembly and a jack wheel, the worm gear assembly, the jack wheel and the jack shaft communicate with each other such that when turning the jack wheel the worm gear assembly adjusts heightness of the jack shaft.

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13. The vibrator absorber jack of claim 12, wherein the base includes three legs and tripod levers, the tripod levers are attached to each leg and slidably attached to the jack shaft such that the legs may be folded together.

15 14. The vibrator absorber jack of claim 13, wherein the vibration absorber jack further includes a collar, the collar is slidably disposed over the jack shaft, each leg is rotatably attached to the collar.

16. The vibrator absorber jack of claim 14, wherein the pivoting assembly includes two pivoting assembly main brackets, two first pivoting assembly brackets, two second pivoting assembly brackets, two
20 stabilizers, and two linkages.

17. A vibration absorber jack for installing vibration absorbers in aircraft, the vibration absorber jack, comprising:
a. a tripod type base;
25 b. a ball-screw jack, the ball-screw jack attached to the tripod type base, the ball-screw jack includes a jack wheel for adjusting the ball-screw jack;

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- c. two pivoting assemblies, the pivoting assemblies substantially parallel to each other and disposed on top of the ball-screw jack, the jack wheel able to adjust heightness of the pivoting assemblies, each pivoting assembly including a pivoting assembly main bracket, a first pivoting assembly bracket, a second pivoting assembly bracket, a stabilizer, and a linkage; the first pivoting assembly bracket slidably attached to the pivoting assembly main bracket, the linkage and the stabilizer rotatably attached to the pivoting assembly main bracket, the linkage rotatably attached to the second pivoting assembly bracket, the stabilizer rotatably attached to the linkage;
- d. a handle for adjusting the pivoting assemblies and adjusting the position of the vibration absorber holder;
- 10 e. a stabilizing block disposed between the two pivoting assemblies; and,
- f. a vibration absorber holder, the vibration absorber holder attached to each first pivoting assembly bracket and each second pivoting assembly bracket such that the vibration absorber holder can be positioned and moved by the pivoting assemblies.

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